PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 03052 St				FOR FURTHER ACTION		See Form PCT/IPEA/416			
International application No.				International filing da	ate (day/month/year)	Priority date (day/month/year)			
PCT/EP2004/009324				20.08.200	4	21.08.2003			
Internati	onal Pat	ent Classification	(IPC) or natio	onal classification and	IPC				
C08K9/04, C09C3/10, C09C3/08									
Applicar SAC		BEN CHE	MIE GME	зн					
1.		-	~	ninary examination re e applicant according t	•	is International Preliminary Examining Authority			
2.	This R	EPORT consists	of a total of	9	sheets, inclu	ding this cover sheet.			
3.	This re	port is also accor	npanied by Al	NNEXES, comprising:					
	a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:								
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or								
	sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
	ь. Г	1	Intermetional I	Puragu anhi) a tatal af	(indicate type and num	where of all action is commissed as			
	о	(sent to the l	ішетишопиі 1	sureau only) a lotal of	(indicate type and nui	nber of electronic carrier(s))			
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see								
				rative Instructions).	is marcared in the 5th	premental box relating to sequence Listing (see			
4.	This re	port contains ind	ications relatir	ng to the following iter	ns:				
	\boxtimes	Box No. I	Basis of the	report					
	\boxtimes	Box No. II	Priority						
	\boxtimes	Box No. III	Non-establis	shment of opinion with	regard to novelty, inv	rentive step and industrial applicability			
		Box No. IV	Lack of unit	y of invention					
	\boxtimes	Box No. V		atement under Article l explanations supporti		ovelty, inventive step or industrial applicability;			
		Box No. VI	Certain docu	uments cited					
		Box No. VII	Certain defe	cts in the international	application				
		Box No. VIII	Certain obse	ervations on the interna	ational application				
Date of s	submiss	ion of the demand	<u> </u>		Date of completion o	f this report			
Name an	nd maili	ng address of the	IPEA/EP		Authorized officer				
Engeimil	a Na				Talanhana No				

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Box	No. I	I Basis of the report		
1.		h regard to the language, this report is based on the internaticated under this item.	onal application in the language in which it was filed, unless	otherwise
		This report is based on translations from the original language which is the language of a translation furnished for the pur international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12. international preliminary examination (Rule 55.2 and	4)	,
2.	rece	h regard to the elements of the international application, this eiving Office in response to an invitation under Article 14 a report): the international application as originally filed/furnished the description:	s report is based on (replacement sheets which have been fi	
			as originally fi	
			received by this Authority on	
	\square		received by this Authority on	
		the claims:		1 1/6 1 1
		nos. 1-29 nos.*	as originally fi	
			as amended (together with any statement) und	
			received by this Authority on	
	П			
	Ш	the drawings: sheets	os originally 6	lad/firmishad
			as originally fi	
		sheets*	received by this Authority on	
	Н	a sequence listing and/or any related table(s) – see Supplemental sequences are sequences as a sequence of the	mental Box Relating to Sequence Listing.	
3.	Ш	The amendments have resulted in the cancellation of:		
		the claims, nos.		
				
4.	Ш	thus report has been established as if (some of) the amenthey have been considered to go beyond the disclosure as	idments annexed to this report and listed below had not beaulifiled, as indicated in the Supplemental Box (Rule 70.2(c)).	n made, since
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
*	If ite	em 4 applies, some or all of those sheets may be marked "su	perseded."	

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Box	x No. I	I Priority
1.	\boxtimes	This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
		copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
		translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
2.		This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.
3.	Add	itional observations, if necessary:

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Sox No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	o novelty, inventive step and industrial applicability
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:	vel, to involve an inventive step (to be non obvious), or to be industrially
the entire international application	
Claims Nos 1-4,11,24-26 (in part)	
because:	
the said international application, or the said claims Nos.	08.
relate to the following subject matter which does not require an international preliminary examination (specify):	equire an international preliminary examination (specify):
the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):	
the claims, or said claims Nos are so inadequately supported	
by the description that no meaningful opinion could be formed.	; formed.
no international search report has been established for said claims Nos. 1-4,11,24-26 (in part)	said claims Nos. <u>1-4,11,24-26</u> (in part)
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrativ Instructions in that:	s not comply with the standard provided for in Annex C of the Administrative
the written form has not been furnished	been furnished
does not comply with the standard	comply with the standard
the computer readable form has not been furnished	been furnished
does not comply with the standard	
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.	
See Supplemental Box for further details.	

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YES
NO
YES
NO
YES
NO

- 2. Citations and explanations (Rule 70.7)
 - This report makes reference to the following documents:

D1: DE-A-26 46 965
D2: US-A-5 143 965
D3: US-A-4 029 513
D4: DE-A-100 05 685

2. Novelty and inventive step D1 discloses a powdered inorganic filler with an organic coating and synthetic resinous compounds filled therewith, the filler being coated with 0.5-5 percent by weight of a fatty acid ester of a polyvalent alcohol (claims 1-4, 6). The inorganic filler is selected from the group of metal(hydr)oxides, metal carbonates, metal sulfates, metal sulfides, metal silicates, and silicate minerals (pages 5-6; claim 5). Fatty acid esters of polyvalent alcohols (claim 3; pages 6-7) are also among the preferred additives in the application (see claim 7). Example 1 describes the production of an ester-coated calcium carbonate by adding the fatty acid

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

ester to the initial solution of calcium hydroxide. The precipitation is carried out by introducing CO_2 gas into the initial solution.

D2 describes fine particles of magnesium hydroxide that can be coated using an anionic surface—active agent (claims 1 and 8). The surface—active agents include, inter alia, modified fatty acid derivatives, alkali metal salts of fatty acids, and fatty acid esters of polyols (column 6, line 10). Examples 1 and 3 describe the production of coated Mg(OH)₂, the surface—active agent being added to the initial solutions and the precipitated product, with an average particle size of 0.7 µm, being separated from the solution by filtration (example 1).

D3 relates to fine particles of silicic acid $(20-800~\mu\text{m})$ as a rubber additive with a high degree of dispersibility, the surface of the silicic acid being modified by inorganic, polyvalent ions (claim 1). The inorganic, polyvalent ions mentioned are polyphosphates (claim 4; see claim 7 of the application).

Example 1 describes the production of a silicic acid coated with a polyphosphate, wherein sodium trimetaphosphate is added to the initial solutions.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Consequently, the present application does not meet the requirements of PCT Article 33(1) because the subject matter of claims 1-9 and 18-24 is neither novel nor inventive with respect to D1 to D3 within the meaning of PCT Article 33(2) and (3).

3. The application does not contain any examples or comparative examples as evidence of the inventive step. It does not show that the presence of the second additive according to claims 10-14 results in any advantage over the methods or coated particles known from D1 to D3. Therefore, no inventive step within the meaning of PCT Article 33(3) can be acknowledged for claims 10-17 or 25-29.

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box III

The current claims 1-4, 10 and 24-26 relate 1. to an inordinately large number of possible methods and uses, of which only a small proportion are supported by the description (PCT Article 6) and/or can be regarded as having been disclosed in the application (PCT Article 5.1 (a) (v)). Terms used in claims 1 and 10 such as "fine inorganic solid particles", "dispersion agents or defloculation agents" or "organic additive" are formulated so broadly that they cover an innumerable number of possible fine inorganic solid particles and additives which are not defined more precisely or in greater detail until later in the subsequent subclaims 5-7 and 11. In the present case the claims lack the proper support and the application lacks the requisite disclosure to such an extent that it does not appear possible to carry out a meaningful search covering the entire range of protection sought.

The search was therefore directed to the parts of the claims that appear to be supported and disclosed in the above sense, namely the parts relating to the methods and uses according to claims 1, 10 and 24-26 in combination with the fine inorganic solid

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Supplemental Box

particles in claims 5 and 6 and the additives in claims 7 and 11.

Consequently, only a partial search was conducted for claims 1-4, 11 and 24-26.

Pursuant to PCT Rule 66.1(e), the subject matter of the international preliminary examination is restricted to methods and uses based on the fine inorganic solid particles defined in claims 5 and 6 and the additives defined in claims 7 and 11.